Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

See			
See Reverse Side I Name and Address of Shipper		for Instructions	sponsible for Radioactive
Umetco Minerals Corporation		Waste Shi	-
		(a) Name	G.E. Walck
137 47th Street		(b) Title	Construction Superintende
Niagara Falls, NY 14302		(c) Telep	hone No (716)278-3361 Identification No.:
. Radioactive Waste Transport Permit No		•	
0211-31-84-X		1084-1	·
Same as (1) above			Address of Consignee aclear Systems, Inc.
		P.O. Box 726 Barnwell, South Carolina 29812	
. Scheduled Date of Departure of	Shipment	8. Estimated	Date of Arrival of Shipment
October 3, 1984		October	5, 1984
. Carrier	10 Type of T	ransport Vehicle.	11. Trailer No. and Owner
Trı-State Motor Transıt	Closed		(if available)
2 Routes shipment will follow i	n State of Sou	th Carolina (Be S	pecific)
I-20, I-26, US-321,	S.C. 3 and	S.C. 64	
	Manifest	Summary	
3 Type Container or Cask	14 Contain	er Spec	15 Total No of Containers
Wood Boxes	CFR 49 1	.73.392 (c)	9
.6 Waste Description, Physical a	ind	17. Prominer	t Radionuclides
Chemical Form Contaminate	ed Soil,	Uranıı	ım (Nat.) .0028
Metal Oxides, Bldg. Rubb	le, Wood	Thorn	m (Nat.) .004
and Plant Hardware	19 Transpor		20. Total Cubic Feet
18 Total Curies (mCl)	ł		585
.06	II	. I	1 363
	d quantities 	Normal Form [] Type A quantity [] Type B quantity [] Large quantity	[] Type B quantity [] Class II
	CERTIF	CATION	
I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Ca	ne information	complied with al	[Fue broaterous as reduting at
G.E. Walck - Construction Typed Name and Title of Agent of	n Supt.	J. E. Signature	Walk (G.E. Walck)
G.E. Walck - Construction	n Supt.	J. E. Signature	Kack
G.E. Walck - Construction	n Supt.	Signature KNOWLEDGEMENT	Kack
G.E. Walck - Construction Typed Name and Title of Agent of	n Supt. Shipper CONSIGNEE AC	Signature KNOWLEDGEMENT artment of Health	Kack
G.E. Walck - Construction Typed Name and Title of Agent of This acknowledges to the Sout	n Supt. Shipper CONSIGNEE AC	Signature KNOWLEDGEMENT artment of Health ent was received	Kalk (G.E. Walck)

UN2912

Original: S. Carolina

Copy:

Chem-Nulcear

DHEC 802 (5/80)

(Copies of this form may be reproduced locally as needed)

General Instructions and Information

1. This form is to be used to provide the Department with prior notification of radioactive waste shipments transported into or within the State of South Carolina. This notification is to be made 72 hours before the expected date of arrival in the State. All written notices should be mailed to:

Bureau of Radiological Health Radioactive Waste Management Section S.C. Dept. of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

- 2. A separate form shall be submitted for each radioactive waste shipment.
- 3. Prior notification is required of all radioactive waste shipments as defined in paragraph 2 of Interim Regulations for the Transportation of Radioactive Waste into or within South Carolina except as provided in paragraph 4.1.2 of the Regulation.
- 4. The "Manifest Summary" portion of this form will satisfy requirements of providing the Department with a shipping manifest, however, it does not satisfy the requirements of shipping documents which shall accompany the shipments as required by DOT Regulations and the disposal facility's license and criteria.
- 5. A copy of this completed form shall be provided to the carrier and all drivers of the radioactive waste shipment.
- 6. Upon delivery of the shipment to the consignee, acknowledgement of receipt shall be obtained, and a copy of this form and the shipper/carrier's certification form shall be returned to the Department.

Specific Instructions

Item Number

- 1. _Self Explanatory
- 2. Self Explanatory
- 3. This item applies to all shipments of radioactive waste transported to and within the State of South Carolina.
- 4. Each shipment of radioactive waste shall be identified in some manner by the shipper. This number can be a radioactive shipment record number, bill of lading number, allocation number, etc. The identification number shall only be used once to identify the one shipment for which notification is being made.
- Self Explanatory
- 6. Indicate in this item the disposal facility, company, organization, etc., to which this shipment has been consigned.
- 7. Self Explanatory
- 8. For through shipments, indicate in this item estimated date shipment will pass through the state.
- 9. Self Explanatory
- 10.6 11. Applies only to exclusive use, sole use, and full load shipments.
- 12. All routing information must be specific. You should check with carrier to insure routes you prescribe are appropriate. The carrier is responsible to inform the Department of any changes of routes in South Carolina after departure.

thru 21. Self Explanatory

Certification: To be signed only by an authorized representative or agent of the shipper and carrier.

SCUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

the Department.	
Part I:	Shipper's Certificate of Compliance
1. Name of Shipper and Address:	2. Shipment Identification No.
Umetco Minerals Corporation	1084-112-A
137 - 47th Street	3. Transport Permit No.
Niagara Falls, NY 14302	
Telephone No. (716) 278-3361	0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date	October 3,	1984
Date_		

G.E. Walck, Construction Superintendent Typed Name and Title of Agent of Shipper

Part II: Carrie	r's Certification
1. Name of Carrier and Address:	2. Shipment Identification No.
Trı-State Motor Transıt Company	1084-112-A
P.O. Box 113 Joplin, Missouri 64801	3. Transport Trailer No.
Telephone No. (800) 641-7591 4. Scheduled Date of Departure of Shipment:	5. Estimated Date of Arrival of Shipment:
October 3, 1984	October 5, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occuring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

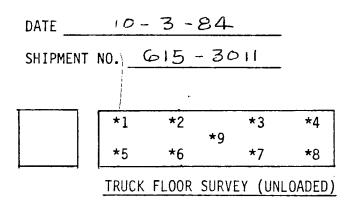
Date October 3, 1984 ARTHUR IS CASSELKURY DRIVER
Typed or Printed Name and Title

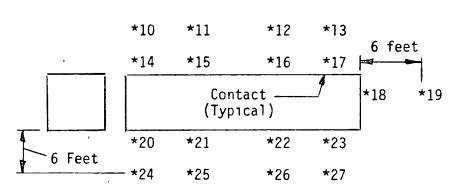
Acthur Rasselburg

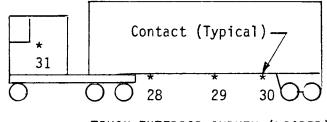
HEC 803 **1**/80)

(Copies of this form may be reproduced locally as needed)

UMETCO MINERALS CORPORATION NIAGARA FALLS, NEW YORK







TRUCK EXTERIOR SURVEY (LOADED)

TRACTOR	NO	8 778
TRAILER	NO.	440547

NO.	d	20
1	.006	20
_2	.010	-
3	,009	
4	.007	80
5	.006	40
6	, 008	
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8	.008	70
9		50
10	.014	
11	.016	
12	.014	_
13	.016	—
14	,020	
15	,024	
16	.026	
17	.024	
18	,022	
19	.018	
20	.018	
21	.028	
22	. 0 28	
23	,034	
24	.014	
25	, 018	
26	.024	
27	.022	
28	. 040	
29	.036	
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	.044	
31	.014 .016 .014 .016 .020 .024 .024 .022 .018 .028 .034 .014 .018 .024 .024 .024 .024 .024	

LEGEND:

* Location of Reading

 $\delta = mR/hr Ludlum Model 19 (S/N 22534)$

(Survey performed by)

Date 10 - 2 - 84
CONTAINER SURVEY
BOX CONTROL NO. UM84 - 180 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4881
RADIATION SURVEY (Total)
CONTACT mR/hr.
3 FEET mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29572
dpm/100cm ² \sim
BKG dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date 10-2-84
CONTAINER SURVEY
BOX CONTROL NO. UM 84 - 181 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4302
RADIATION SURVEY (Total)
CONTACT 030 mR/hr.
3 FEET . 0 12 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29573
BKG dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date
CONTAINER SURVEY
BOX CONTROL NO. UM 84 - 182 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5041
RADIATION SURVEY (Total)
CONTACT . 032 mR/hr.
3 FEET . 0 12 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29574
$\frac{O}{dpm/100cm^2} \propto$
BKG $dpm/100cm^2$ B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date 10-2-84
CONTAINER SURVEY
BOX CONTROL NO. UM 84-183 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4434
RADIATION SURVEY (Total)
CONTACT mR/hr.
3 FEET . 0 1 4 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A - 29575
$\frac{\text{dpm}/100\text{cm}^2}{\text{dpm}/100\text{cm}^2} \propto$
BKG_dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date10-2-84
CONTAINER SURVEY
BOX CONTROL NO. UM 84-184 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5254
RADIATION SURVEY (Total)
CONTACT . 0 50 mR/hr.
3 FEET . 0 20 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29576
dpm/100cm ² ✓
BKG dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date 10-2-84
CONTAINER SURVEY
BOX CONTROL NO. UM 84 - 185 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4662
RADIATION SURVEY (Total)
CONTACT mR/hr.
3 FEET . 0 14 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29577
$_{\rm dpm/100cm^2} \sim$
BKG dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date_ 10-2-84_			
CONTAINER SURVEY			
BOX CONTROL NO. UM 84 - 186 BOX CAULKED YES			
BOX BANDED YES BOX WEIGHT 4752			
RADIATION SURVEY (Total)			
CONTACT 0 26 mR/hr.			
3 FEET . 0 1 2 mR/hr.			
INSTRUMENT Ludlum Model 19			
SERIAL NUMBER 22534			
RADIATION SURVEY (Removable)			
SMEAR NO. A 29578			
$\underline{\hspace{1cm}}^{\text{dpm}/100\text{cm}^2} \hspace{1cm} \simeq \hspace{1cm}$			
BKG dpm/100cm ² B			
INSTRUMENT NMC Model PC-55			
SERIAL NUMBER 81-2712-05			

	Date	10-2-84		
CONTAINER SURVEY				
BOX CONTROL NO. UM84-187 BOX CAULK	ED	YES		
BOX BANDED YES BOX WEIGH	Т	4 33 2		
RADIATION SURVEY (T	otal)			
CONTACT -042 mR/hr.				
3 FEET . O 14 mR/hr.				
INSTRUMENT Ludlum Model 19				
SERIAL NUMBER 22534				
RADIATION SURVEY (Remove	able)	·		
SMEAR NO. A 29579				
dpm/100cm ² ≪				
BKG dpm/100cm ² B				
INSTRUMENT NMC Model PC-55		-		
SERIAL NUMBER 81-2712-05				

Date	10-	2	9-	4	

CONTAINER SURVEY

BOX CONTROL NO. UM 84-188 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4840
RADIATION SURVEY (Total)
CONTACT MR/hr.
3 FEET .012 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A 29580
\odot dpm/100cm ² \simeq
BKG dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

UMETCO MINERALS CORPORATION NIAGARA FALLS, NEW YORK

DATE 10-3-84

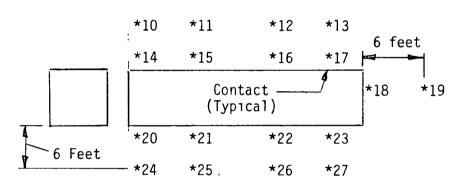
SHIPMENT NO. 615 - 3011

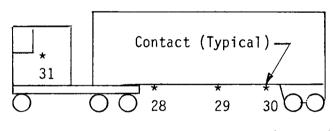
TRACTOR NO. 8778

TRAILER NO. 440547

*1	*2	+ 0	*3	*4
*5	*6	^y 	*7	*8

TRUCK FLOOR SURVEY (UNLOADED)





TRUCK EXTERIOR SURVEY (LOADED)

NO.	8	B
1	,006 ,010 ,009 ,007 ,006 ,008 ,008	20
2	010	
3	,009	
4	.007	80 40 - 70 50
5	.006	40
6	,008	
7	,008	
8	.008	70
9		50
10	.014	
11	.016	
12	.014	
13	.016	
14	,020	
15	,024	
16	.026	
17	.024	
18	,022	
19	.018	
20	.018	
21	.028	
22	.028	
23	,034	
24	,014	
25	,018	
26	.024	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31	.014 .016 .014 .016 .020 .024 .024 .024 .022 .018 .028 .028 .034 .014 .014 .018 .024 .024 .024 .024 .024	
28	. 040	
29	.036	
30	. 044	
31	.008	

LEGEND:

* Location of Reading

 δ = mR/hr Ludlum Model 19 (S/N 22534)

 $B = dpm/100 cm^2$ Ludlum Model 15 (S/N 28886) w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

(Survey performed by)